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P.O. Box 450, MSIN H6-60 Richland, Washington 99352

OCT 1 8 2007

07-ESQ-171

Ms. Jane A. Hedges, Program Manager Nuclear Waste Program Washington State Department of Ecology 3100 Port of Benton Blvd. Richland, Washington 99354



Dear Ms. Hedges:

SUBMITTAL OF HANFORD FACILITY RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) PERMIT MODIFICATION NOTIFICATION FORM 24590-HLW-PCN-ENV-06-014

Reference:

WA7890008967, "Dangerous Waste Portion of the Hanford Facility Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Dangerous Waste, Operating Unit 10, 'Waste Treatment and Immobilization Plant.'"

This letter transmits the Hanford Facility RCRA Permit Modification Notification Form 24590-HLW-PCN-ENV-06-014. The form describes a requested Class 1 modification to the Reference.

Modification Notification Form 24590-HLW-PCN-ENV-06-014 updates the Process Flow Diagram (24590-HLW-M5-V17T-P0001) for the High-Level Waste Receipt and Feed Preparation Systems found in Appendix 10.1 of the Reference. In accordance with the existing Bechtel National, Inc. (BNI) permitting process, the permit drawing identifies components that require independent design assessment and installation inspection per the Dangerous Waste Permit (DWP) and Washington Administrative Code requirements. Upon approval of the pending DWP modification, the BNI process will be revised to submit engineering source drawings.

If you have any questions, please contact me, or your staff may contact Lori A. Huffman, Office of Environmental Safety and Quality, (509) 376-0104.

Sincerely,

Shirley J/Olinger, Acting Manager

Office of River Protection

**ESQ:LAH** 

Attachment

cc: See page 2

### cc w/attach:

Administrative Record H-0-8

**BNI** Correspondence

Environmental Portal, LMSI

#### cc electronic:

B. Dubiel, BNI

W. S. Elkins, BNI

B. G. Erlandson, BNI

P. A. Fisher, BNI

J. S. Hill, BNI

S. Murdock, BNI

P. Peistrup, BNI

D. Becker, Ecology

B. Becker-Khaleel, Ecology (1 hard copy)

R. Biyani, Ecology

E. A. Fredenburg, Ecology

T. A. Williams, Ecology

S. A. Thompson, FHI

A. C. McKarns, RL

D. J. Sommer, SCS

# cc w/o attach:

D. A. Klein, BNI

J. Cox, CTUIR

S. Harris, CTUIR

S. L. Dahl, Ecology

G. P. Davis, Ecology

G. Bohnee, NPT

K. Niles, Oregon Energy

R. Jim, YN

# Attachment 07-ESQ-171

Hanford Facility RCRA Permit Modification Notification Form 24590-HLW-PCN-ENV-06-014

# Hanford Facility RCRA Permit Modification Notification Form Part III, Operating Unit 10

## **Waste Treatment and Immobilization Plant**

#### Index

Page 2 of 3

Hanford Facility RCRA Permit, Operating Unit 10, Waste Treatment and Immobilization Plant
Update HLW Vitrification *Process Flow Diagram HLW Receipt & Feed Preparation (System HCP, GFR, & HFP)* in Appendix 10.1 of the Dangerous Waste Permit

Submitted by Co-Operator:

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Reviewed by ORP Program Office:

Date

<sup>1</sup> Class 1 modifications requiring prior Agency approval.

<sup>&</sup>lt;sup>2</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.

Hanford Facility RCRA Permit Modification Notification Form			
Unit:	Permit Part & Chapter: Part III, Operating Unit 10		
Waste Treatment and Immobilization Plant			

#### **Description of Modification:**

The purpose of this Class 1 modification is to update the HLW Vitrification *Process Flow Diagram HLW Receipt & Feed Preparation (System HCP, GFR, & HFP)* in Appendix 10.1 of the Dangerous Waste Permit. The following permit Process Flow Diagram is submitted to replace the Diagram currently in Appendix 10.1.

Appendix 10.1		
Replace: 24590-HLW-M5-V17T-P0001, Rev. 3	With:	24590-HLW-M5-V17T-P0001, Rev. 4

The referenced Process Flow Diagram incorporates changes provided in applicable document change forms (DCNs) and changes associated with the resolution to comments on DCNs since the issuance of the last revision of the permitted drawing. This modification requests Ecology approval and incorporation into the permit, the specific changes to the Process Flow Diagram that is indicated by note 24, clouds, and revision triangles. Revisions are the result of ongoing design changes. The following identifies the significant types of changes on the attached drawings.

#### 24590-HLW-M5-V17T-P0001

- Deleted Hold 3
- Added, revised and changed notes, holds and, references
- Deleted product system design: Glass Formers Reagent System (GFR) mechanical handling equipment items [Agglomeration Equipment for HLW Melter 1 and 2 (GFR-MHAN-00004 and GFR-MHAN-00005)]
- Revised, GFR tanks (product systems) and connection inlet
- Revised Pretreatment off-sheet connection points and text
- Added note 17
- Deleted Plant Wash and Disposal to overflows, Instrument Service Air to vessels and Anti-foam Reagent to vessels connections
- Changed Note 19 in vessels to Note 10

The following is a list of outstanding change documents that have not been incorporated into this modification: None

Class 1 modifications requiring prior Agency approval.

<sup>&</sup>lt;sup>2</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.

Quarter Ending September 30, 2007

### 24590-HLW-PCN-ENV-06-014

WAC 173-303-830 Modification Class: 12	Class 1	Class 11	Class 2	Class 3	
Please mark the Modification Class:	Х				
Enter Relevant WAC 173-303-830, Appendix I Modificat Enter wording of WAC 173-303-830, Appendix I Modification A.1 - Administrative and informational changes.  A.3 - Equipment replacement or upgrading with function controls).  In accordance with WAC 173-303-830(4)(d)(i), this modicates 1 modification. WAC 173-303-830(4)(d)(i)(A) starpermit current with routine changes to facility or its operator reduce the capacity of the facility to protect human he director may require prior approval."	ation citation:  ally equivalent comp  fication notification is  tes, "Class 1 modification. These change	s requested to be ations apply to m	es, valves, pump reviewed and a inor changes tha tially alter the pe	pproved as a at keep the ermit conditions	
Modification Approved: Yes No (state Reason for denial:	e reason for denial	) Re	Reviewed by Ecology:		
		B. Becker	-Khaleel	Date	

Class 1 modifications requiring prior Agency approval.

If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.

